

Title (en)

SINGLE DOSE INHALER MONITORING ATTACHMENT

Title (de)

ÜBERWACHUNGSAUFSATZ FÜR EINZELDOSISINHALATOR

Title (fr)

ACCESSOIRE DE SURVEILLANCE D'INHALATEUR À DOSE UNIQUE

Publication

EP 3773831 A1 20210217 (EN)

Application

EP 19723898 A 20190328

Priority

- US 201815940952 A 20180329
- US 2019024524 W 20190328

Abstract (en)

[origin: US2019298942A1] A medicament device sensor (Sensor) comprises a body, a front wall, a back wall, an audio sensor, and a plurality of pressure sensors. The body includes a bottom surface on which the various sensors are coupled. The front wall and the back wall provide mirror symmetry in at most one plane, thereby defining a single orientation in which the Sensor attaches to the medicament device. The front wall includes a securement clip that attaches to a ledge on the medicament device. To detect secure attachment of the Sensor to the medicament device, one pressure sensor detects pressure when the Sensor is secured to the medicament device. Another one or more pressure sensors detect depression of one or more dosing buttons confirming priming of the medicament device. The audio sensor detects an inhalation confirming dispensing of medicament. In effect, the Sensor determines a dispensing event has occurred.

IPC 8 full level

A61M 15/00 (2006.01); **G06M 1/02** (2006.01)

CPC (source: EP US)

A61B 7/003 (2013.01 - US); **A61M 15/008** (2014.02 - EP US); **G06M 1/026** (2013.01 - EP US); **G16H 10/60** (2017.12 - EP US); **G16H 20/13** (2017.12 - EP US); **A61B 5/1112** (2013.01 - EP US); **A61B 5/4833** (2013.01 - EP US); **A61B 2560/028** (2013.01 - EP US); **A61M 15/0001** (2014.02 - US); **A61M 15/003** (2014.02 - EP US); **A61M 15/0035** (2014.02 - EP US); **A61M 15/0041** (2014.02 - EP US); **A61M 15/009** (2013.01 - EP US); **A61M 2016/0018** (2013.01 - US); **A61M 2016/0021** (2013.01 - EP US); **A61M 2202/064** (2013.01 - EP US); **A61M 2205/14** (2013.01 - EP US); **A61M 2205/332** (2013.01 - EP US); **A61M 2205/3375** (2013.01 - EP US); **A61M 2205/3553** (2013.01 - EP US); **A61M 2205/3569** (2013.01 - EP US); **A61M 2205/3576** (2013.01 - US); **A61M 2205/3584** (2013.01 - EP US); **A61M 2205/3592** (2013.01 - EP US); **A61M 2205/505** (2013.01 - EP US); **A61M 2205/52** (2013.01 - EP US); **G16H 50/30** (2017.12 - EP US)

Citation (search report)

See references of WO 2019191392A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 11071836 B2 20210727; **US 2019298942 A1 20191003**; EP 3773831 A1 20210217; EP 3773831 B1 20220713; EP 4129372 A1 20230208; JP 2021519645 A 20210812; JP 2022044044 A 20220316; JP 2023052657 A 20230411; JP 6977183 B2 20211208; JP 7434251 B2 20240220; US 2021316089 A1 20211014; WO 2019191392 A1 20191003

DOCDB simple family (application)

US 201815940952 A 20180329; EP 19723898 A 20190328; EP 22183411 A 20190328; JP 2020552855 A 20190328; JP 2021182557 A 20211109; JP 2023010297 A 20230126; US 2019024524 W 20190328; US 202117357824 A 20210624